

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L42	1	"6979831"	US-PGPUB; USPAT	OR	ON	2007/03/24 16:32
L43	7	("3956635" "4820928" "5136169" "5148322" "6262429" "6393604" "6500497").PN.	US-PGPUB; USPAT	OR	ON	2007/03/24 16:32
S1	1	10/783263	US-PGPUB; USPAT	OR	ON	2007/03/24 16:31
S2	1	("6204989").PN.	US-PGPUB; USPAT	OR	ON	2006/11/13 14:01
S8	134	S3 or S4 or S5 or S6 or S7	US-PGPUB; USPAT	OR	ON	2007/03/20 16:15
S9	8	((SUNDEEP) near2 (CHAUHAN)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S10	23	((LAWRENCE) near2 (BRYANT)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S11	39	((NEIL) near2 (DEEMAN)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S12	17	((CHRISTOPHER) near2 (FORMATO)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S13	91	((DAVID) near2 (KUO)).INV.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S14	137	S9 or S10 or S11 or S12 or S13	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S15	17	S14 and ((electron near2 beam) or (electron near2 beam near2 control))	US-PGPUB; USPAT	OR	ON	2007/03/20 16:16
S16	153158	(electron near2 beam) or (electron near2 beam near2 (processing or system)) or (electron near2 beam near2 processing near2 system)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:28
S17	1458198	(data near2 marks) or pattern or (pattern near2 data) or (pattern near2 generat\$4)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 09:58
S18	1570515	(substrate near2 processing) or substrate	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:24
S19	7150	(constant near2 linear near2 velocit\$3) or CLV	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:24
S20	9644	(constant near2 angular near2 velocit\$3) or "CAV"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:25
S21	1	S16 same S17 same S18 same S19 same S20	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:26
S22	37	S17 same S18 same S19 same S20	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:27

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S23	6	S22 and S16	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:26
S24	95903	"250".clas.	US-PGPUB; USPAT	OR	ON	2007/03/20 16:28
S25	2640	S24 and (electron near2 beam near2 (processing or system)) or (electron near2 beam near2 processing near2 system)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:31
S26	19516	S16 with S18	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:32
S27	4981	S16 with S18 with S17	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:33
S28	73	S27 and "369".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:34
S29	30	S27 and "369".clas. and (spindle or (spindle near2 motor))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:37
S30	6270	encoder near2 (wheel or disk or disc)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:37
S31	1	S29 and S30	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:37
S32	14	S27 and "250".clas. and (spindle or (spindle near2 motor))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:38
S33	4	S32 and S30	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:37
S34	552	(encoder near2 (wheel or disk or disc)) and "250".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:37
S35	376	(pattern near2 generat\$4 near2 circuit) and "250".clas.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 16:39
S36	153158	(electron near2 beam) or (electron near2 beam near2 (processing or system)) or (electron near2 beam near2 processing near2 system)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:00
S37	153243	(pattern near2 (data or information)) or (pattern near2 generat\$4) or (pattern near2 generat\$4 near2 circuit)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:14
S38	6270	encoder near2 (wheel or disk or disc)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:52
S39	5	S36 same S37 same S38	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:44

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S40	8	("3956635" "4820928" "5136169" "5148322" "6204989" "6262429" "6393604" "6500497").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:03
S43	17	S36 and S37 and S38	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:49
S44	10	S36 and S37 and S38 and (vacuum near2 chamber)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:46
S45	27	(optical near2 (reader or detector)) near10 (timing near2 mark)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:50
S46	5	S45 and S38	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:50
S47	57	(optical near2 (reader or detector)) same (timing near2 mark)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:50
S48	5	S47 and S38	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:51
S49	94026	(detect\$4 or determin\$4) near2 rotat\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:53
S50	1669	S36 and (S38 or S49)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 10:59
S51	245	S36 and (S38 or S49) and (vacuum near2 chamber)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:00
S52	58	S36 and (S38 or S49) and (vacuum near2 chamber) and S37	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:06
S56	286435	((angular or rotation\$4) near2 (speed or velocity))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:14
S57	525781	((track or radial) near2 position\$4) or (radius or (processing near2 radius))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:12
S58	11425	(electron near2 beam near2 control\$4) or (electron near2 beam near2 control\$4 near2 signal) or (electron near2 beam near2 control\$4 near2 signal near2 frequency) or (electron near2 beam near2 (time or timing))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:14
S59	147	(S56 or S57) same S58	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:16
S60	237214	(pattern near2 (data or information)) or (pattern near2 generat\$4) or (pattern near2 generat\$4 near2 circuit) or (pattern near3 substrate)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:15

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S61	14	(S56 or S57) same S58 same S60	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:15
S64	37	(S56 or S57) same S58 same (pattern or substrate)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/21 11:25
S65	111730	electron adj beam	US-PGPUB; USPAT	OR	ON	2007/03/22 13:11
S66	33783	angular adj velocit\$4	US-PGPUB; USPAT	OR	ON	2007/03/22 13:11
S67	1092491	pattern	US-PGPUB; USPAT	OR	ON	2007/03/22 13:11
S68	12785	axial adj rotat\$5	US-PGPUB; USPAT	OR	ON	2007/03/22 13:11
S69	1108920	frequenc\$5	US-PGPUB; USPAT	OR	ON	2007/03/22 13:11
S70	394986	radius	US-PGPUB; USPAT	OR	ON	2007/03/22 13:12
S71	14992	track adj position	US-PGPUB; USPAT	OR	ON	2007/03/22 13:12
S72	438973	S66 or S68 or S70 or S71	US-PGPUB; USPAT	OR	ON	2007/03/22 13:13
S73	19	S65 same S67 same S69 same S72	US-PGPUB; USPAT	OR	ON	2007/03/22 13:17
S74	1	"6979831"	US-PGPUB; USPAT	OR	ON	2007/03/22 14:16
S75	111730	electron adj beam	US-PGPUB; USPAT	OR	ON	2007/03/23 15:21
S76	33783	angular adj velocit\$4	US-PGPUB; USPAT	OR	ON	2007/03/23 15:21
S77	1092491	pattern	US-PGPUB; USPAT	OR	ON	2007/03/23 15:22
S78	12785	axial adj rotat\$5	US-PGPUB; USPAT	OR	ON	2007/03/23 15:21
S79	1108920	frequenc\$5	US-PGPUB; USPAT	OR	ON	2007/03/23 15:22
S80	394986	radius	US-PGPUB; USPAT	OR	ON	2007/03/23 15:22
S81	14992	track adj position	US-PGPUB; USPAT	OR	ON	2007/03/23 15:21
S82	438973	S76 or S78 or S80 or S81	US-PGPUB; USPAT	OR	ON	2007/03/23 15:22
S83	19	S75 same S77 same S79 same S82	US-PGPUB; USPAT	OR	ON	2007/03/23 15:23
S87	521244	marks or ((data or record\$4) near2 mark)	US-PGPUB; USPAT	OR	ON	2007/03/23 15:23
S88	902445	S76 or S78 or S87 or S80 or S81	US-PGPUB; USPAT	OR	ON	2007/03/23 15:30

## EAST Search History

S89	42	S75 same S77 same S79 same S88	US-PGPUB; USPAT	OR	ON	2007/03/23 15:33
S90	23	S89 not S83	US-PGPUB; USPAT	OR	ON	2007/03/23 15:24
S91	443221	(angular near2 dimension) or ((mark or pattern) near2 (length or width)) or S80 or S81	US-PGPUB; USPAT	OR	ON	2007/03/23 15:32
S92	43708	(angular near2 dimension) or ((mark or pattern) near2 (length or width))	US-PGPUB; USPAT	OR	ON	2007/03/23 15:32
S93	1	S75 same S77 same S79 same (S80 or S81) same S92	US-PGPUB; USPAT	OR	ON	2007/03/23 15:35
S94	14	S75 same S77 same S79 same S92	US-PGPUB; USPAT	OR	ON	2007/03/23 15:36
S96	6	S75 same (S77 or S87) same S79 same ((constant near2 angular near2 velocity) or CAV)	US-PGPUB; USPAT	OR	ON	2007/03/23 15:40
S100	4	S89 and ((constant near2 angular near2 velocity) or CAV)	US-PGPUB; USPAT	OR	ON	2007/03/23 15:40